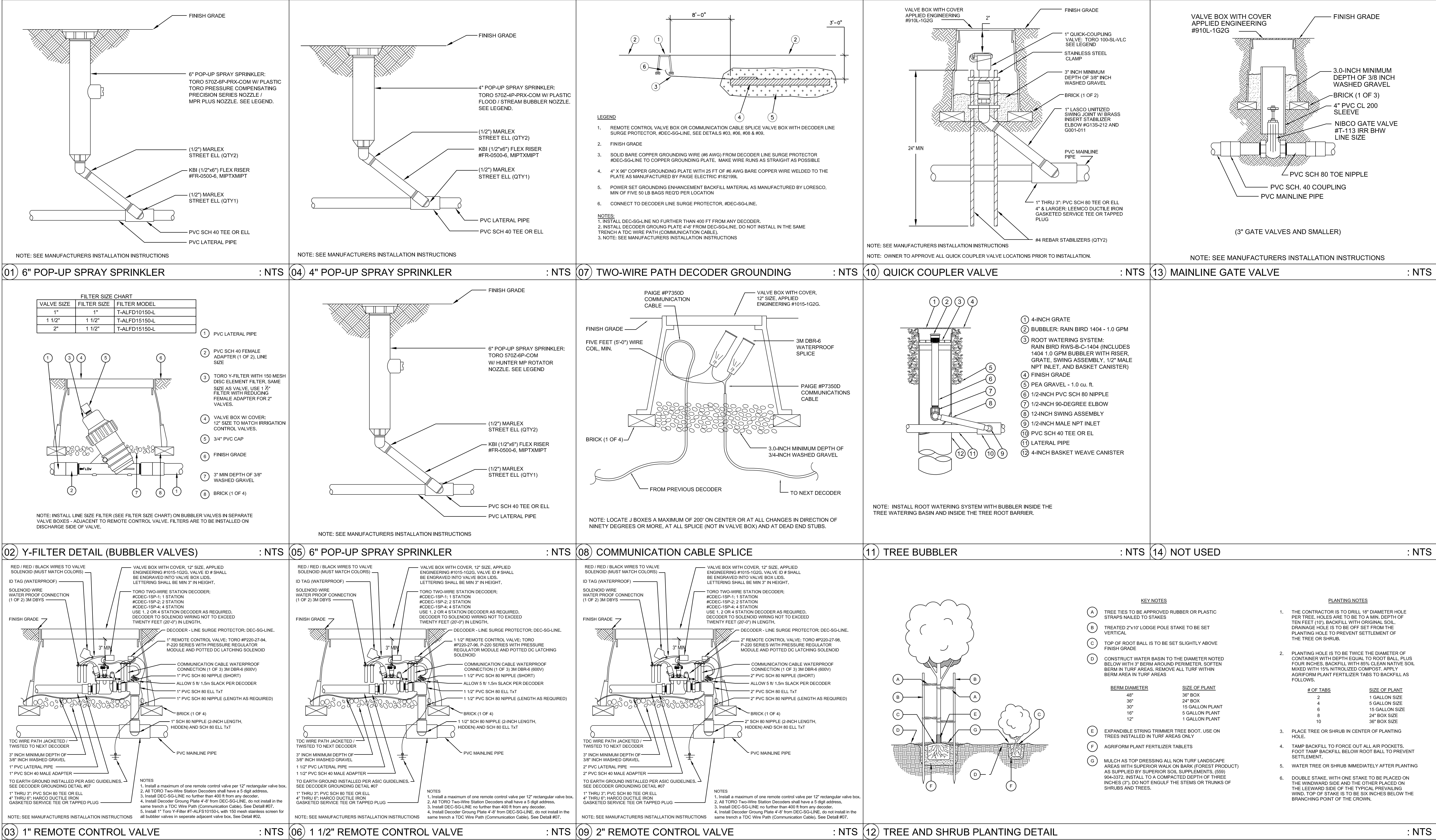


three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
one quarter inch = one foot
one eighth inch = one foot



LANDSCAPE & IRRIGATION DETAILS

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Drawing Title

LANDSCAPE & IRRIGATION DETAILS

Approved: Project Director

Project Title

VA MONUMENT
WALK OF HONOR

Location

FRESNO, CA

Date

12-23-14

Checked

DB

Drawn

SV

Project Number

Building Number

Drawing Number

L401

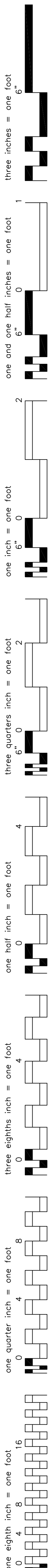
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NTS

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Office of
Construction
and Facilities
Management

Department of
Veterans Affairs



1. PRODUCT "OR APPROVED EQUAL" SPECIFICATION NOTE: ALL SPECIFIED MATERIALS, PRODUCTS AND MANUFACTURERS ARE RELEVANT TO DESCRIBE THE REQUIRED QUALITY AND FEATURES OF A PARTICULAR COMPONENT OF THE PROJECT, HOWEVER, THE SPECIFIC PRODUCT OR MANUFACTURER NOTED IS TO BE CONSTRUED TO BE FOLLOWED BY THE WORDS, "OR APPROVED EQUAL".

2. GENERAL NOTE: THE CONTRACTOR IS TO SUPPLY ALL EQUIPMENT, MATERIALS AND LABOR TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM. ADDITIONAL EQUIPMENT AND MATERIALS IN ADDITION TO THE SYSTEM COMPONENTS LISTED IN THE LEGEND MAY BE REQUIRED TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.

3. SPRINKLER ADJUSTMENT NOTE: CONTRACTOR SHALL MAKE ANY ADJUSTMENTS OR CHANGES TO SPRINKLERS, NOZZLES, RADIUS AND ARCS AS REQUIRED TO PROVIDE 100% COVERAGE TO ALL LANDSCAPE AREAS AND PREVENT OVER SPRAY ONTO BUILDINGS OR HARDSCAPED SURFACES.

4. EXISTING IRRIGATION SYSTEM AND WATERING NOTE: THE CONTRACTOR IS RESPONSIBLE TO KEEP THE EXISTING IRRIGATION SYSTEM TO REMAIN OPERATIONAL TO IRRIGATE ALL LANDSCAPED AREAS. WHERE AUTOMATIC OPERATION OF EXISTING IRRIGATION SYSTEMS IS INTERRUPTED DUE TO CONSTRUCTION ACTIVITIES, THE CONTRACTOR IS RESPONSIBLE TO SUPPLY TEMPORARY IRRIGATION TO NEW AND/OR EXISTING AREAS THAT ARE EFFECTED BY THE SERVICE INTERRUPTION AS REQUIRED DUE TO PREVAILING WEATHER CONDITIONS. THE CONTRACTOR SHALL MAKE REPAIRS TO THE EXISTING SYSTEM AS NEEDED. THE CONTRACTOR IS TO ASSIST MAINTENANCE PERSONNEL AS NEEDED TO KEEP THE EXISTING LANDSCAPED AREAS IRRIGATED. AREAS AFFECTED BY NEW CONSTRUCTION ARE TO BE IRRIGATED BY THE CONTRACTOR. CONTRACTOR IS TO REPLACE ANY DEAD OR STRESSED PLANT MATERIALS (TO MATCH EXISTING) THAT WERE TO REMAIN THAT WERE DAMAGED DUE TO CONSTRUCTION ACTIVITIES.

5. EXISTING IRRIGATION SYSTEM TO BE REPLACED BY NEW IRRIGATION SYSTEM NOTE: THE CONTRACTOR IS TO REMOVE EXISTING SPRINKLERS, VALVES AND OTHER IRRIGATION IMPROVEMENTS VISIBLE AT THE SURFACE IN AREAS TO RECEIVE NEW IRRIGATION AND DELIVER SALVAGED PARTS, INCLUDING, BUT NOT LIMITED TO SPRINKLERS, VALVES, VALVE BOXES ETC., TO THE MAINTENANCE DEPARTMENT. PIPING IS TO BE REMOVED WHERE IT INTERFERES WITH CONSTRUCTION ACTIVITIES. OTHERWISE PIPING MAY BE ABANDONED BELOW GRADE. WHERE PIPING IS BROUGHT TO THE SURFACE, THE CONTRACTOR SHALL CUT IT OFF A MINIMUM OF 12" BELOW GRADE. DEPRESSIONS AND HOLES THAT ARE CREATED FROM REMOVING EXISTING IRRIGATION IMPROVEMENTS BEING REPLACED ARE TO BE FILLED WITH CLEAN TOPSOIL LEVEL WITH SURROUNDING GRADE AND COMPACTED. IRRIGATION SYSTEM AND BUILDING WATER ARE TO REMAIN INTACT AND OPERATIONAL.

6. SITE IRRIGATION WATER AVAILABILITY NOTE: THE CONTRACTOR IS TO INSTALL ALL REROUTED MAINLINE PIPES WHILE LEAVING THE EXISTING IRRIGATION SYSTEM IN SERVICE DURING THE PROJECT. WHEN ALL PIPES AND WIRE REROUTING WORK IS COMPLETE THE CONTRACTOR MAY ARRANGE TO SHUT OFF THE WATER TO MAKE FINAL CONNECTIONS FOR A PERIOD OF TIME NOT TO EXCEED ONE DAY. THE MAINTENANCE SUPERVISOR IS TO BE GIVEN A MINIMUM OF ONE WEEK WRITTEN NOTICE TO OVERWATER THE SITE IN QUESTION PRIOR TO SHUTTING OFF THE WATER TO MAKE FINAL CONNECTIONS. IF PREVAILING WEATHER CONDITIONS ARE OVER 95 DEGREES DAYTIME HIGH TEMPERATURES, THEN THE SHUT DOWN DURATION MAY BE LIMITED TO NO MORE THAN ONE PARTIAL DAY AS DECIDED BY MAINTENANCE SUPERVISOR.

7. MANUAL IRRIGATION NOTE: THE CONTRACTOR IS RESPONSIBLE TO MANUALLY IRRIGATE ANY EXISTING IRRIGATION SYSTEM AREAS ON THE SITE WHERE THE EXISTING AUTOMATIC OPERATION OF THE EXISTING SYSTEMS TO REMAIN AND PROTECT ARE INTERRUPTED DUE TO CONSTRUCTION ACTIVITIES. DEPENDING UPON PREVAILING WEATHER CONDITIONS, DAILY WATERING MAY BE REQUIRED AS REQUESTED BY THE MAINTENANCE SUPERVISOR. THIS MAY INCLUDE A LARGE AREA WITH DOZENS OF REMOTE CONTROL VALVES. THE CONTRACTOR IS TO CAREFULLY FIELD VERIFY AND COORDINATE WORK TO AVOID DAMAGING THE EXISTING PIPING OR WIRING THAT MAY REQUIRE MANUAL IRRIGATION OF THE SITE BY THE CONTRACTOR FOR EXTENDED PERIODS OF TIME.

9. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ANY VEGETATION WITHIN THE PROJECT AREA THAT IS NOT CALLED TO REMAIN AND PROTECT. ANY ADJACENT LANDSCAPE AREAS OUTSIDE THE PROJECT AREA THAT ARE TO REMAIN AND PROTECT THAT ARE DAMAGED ARE TO BE REPAIRED AND RESTORED AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR IS TO VISIT THE SITE PRIOR TO BID TO VERIFY EXISTING CONDITIONS AND IMPROVEMENTS.

11. TREES SHALL BE SELECTED, INSTALLED AND MAINTAINED TO PROVIDE 80" MINIMUM CLEARANCE ABOVE PAVEMENT TO ANY OVERHEAD OBSTRUCTION.

1. ALL TREES NOT LOCATED WITHIN THE LIMITS OF CONSTRUCTION, AS DESIGNATED ON THE PLANS AND OUTSIDE OF DISTURBED AREAS SHALL BE PRESERVED. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING TREES TO BE PRESERVED FROM ALL CONSTRUCTION ACTIVITIES.

3. PRIOR TO EXCAVATION OR GRADE CUTTING WITHIN TREE DRIP LINES, A CLEAN CUT SHALL BE MADE WITH A CHAINSAW WITH CARBIDE TIPS, AXE MATTOCKS OR SIMILAR EQUIPMENT. IN A LOCATION AND TO A DEPTH APPROVED BY THE VA COR, TO MINIMIZE DAMAGE TO REMAINING ROOTS.

5. WHEN INSTALLING CONCRETE ADJACENT TO THE ROOT ZONE OF A TREE, A PLASTIC VAPOR BARRIER SHALL BE PLACED BEHIND THE CONCRETE TO PROHIBIT LEACHING OF LIME INTO THE CRITICAL ROOT ZONE.

7. NO LANDSCAPE TOPSOIL DRESSING GREATER THAN FOUR INCHES (4") SHALL BE PERMITTED WITHIN THE DRIP LINE OR CRITICAL ROOT ZONE OF TREES, WHICHEVER IS GREATER. NO TOPSOIL IS PERMITTED ON ROOT FLARES OF ANY TREE.

9. TREES APPROVED FOR REMOVAL SHALL BE REMOVED IN A MANNER WHICH DOES NOT IMPACT TREES TO BE PRESERVED.

1. TO EASILY IDENTIFY STATIONS FOR TROUBLESHOOTING, INSTALL WIRES WITH THE SAME COLOR CODE AS THE STATION WIRES.

3. MAXIMUM COMMUNICATION WIRE LENGTH BETWEEN THE CONTROLLER AND THE FARTHEST DECODER IS 15,000 FEET.

4. RECOMMENDED CABLE FOR CONTROLLER-TO-DECODER IS THE PAIGE P7350D, 14 AWG, SOLID COPPER, JACKETED 2-CONDUCTOR, DIRECT BURIAL CABLE.

5. RECOMMENDED CABLE FOR DECODER-TO-SOLENOID IS THE PAIGE P7351D, 14 AWG, SOLID COPPER, 2-CONDUCTOR, DIRECT BURIAL CABLE.

6. THE INTEGRITY OF THE COMMUNICATION CABLE IS CRITICAL TO OPERATION OF THE SYSTEM. AS IT IS BEING INSTALLED, BEFORE THE DECODERS ARE CONNECTED, LOOP THE COMMUNICATION CABLE UP OUT THE VALVE BOX LEAVING A 3 FT LOOP.

7. AT THE END OF EACH WIRE PATH, THE WIRE SHOULD BE TESTED WITH A VOLT-OHM METER TO CHECK FOR DAMAGE THAT MAY HAVE OCCURRED DURING INSTALLATION.

8. BECAUSE VOLTAGE CARRIED BY THE COMMUNICATION CABLE EXCEEDS 30 VAC, A HIGH VOLTAGE SPLICE IS REQUIRED BY THE NATIONAL ELECTRIC CODE. THE 3M DBY-6 AND DBR-6 COMPLY AS THEY ARE RATED AT 600AC.

9. WHEN USING DECODERS, IT IS RECOMMENDED TO LOCATE THE DECODER AT THE VALVE TO REDUCE THE OUTPUT WIRE PATH EXPOSURE TO LIGHTNING. IT ALSO MAKES IT EASIER TO LOCATE FOR SERVICE.

10. TDC CABLE PATH SURGE PROTECTION - SURGE ARRESTOR AND GROUNDING EQUIPMENT SHOULD BE INSTALLED NO MORE THAN 400' FROM ANY DECODER

11. COMMUNICATION CABLE MUST BE CONNECTED BLACK TO BLACK AND WHITE TO WHITE AT ALL SPLICES.

12. VALVES MUST BE EQUIPPED WITH DC LATCHING SOLENOIDS

13. DECODER TO SOLENOID WIRES MUST BE CONNECTED WITH CORRECT POLARITY TO OPERATE THE SOLENOID. (DECODER OUTPUT WIRES WITH BLACK STRIPE MUST BE CONNECTED TO BLACK SOLENOID WIRE.)

14. DO NOT LOOP OR CONNECT DECODER CABLE BACK TO CONTROLLER BOARD OR WIRE PATH IN TWO LOCATIONS.

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